

FIG. 1

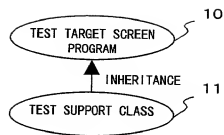


FIG. 2

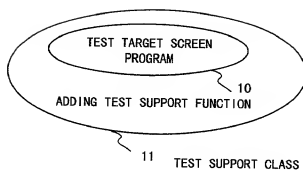


FIG. 3

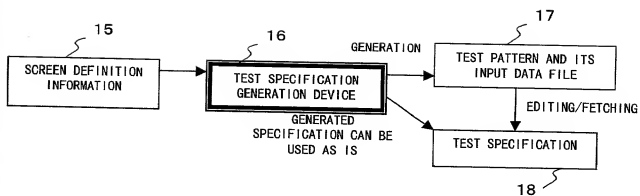


FIG. 4

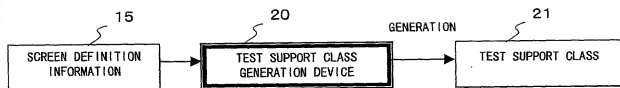


FIG. 5

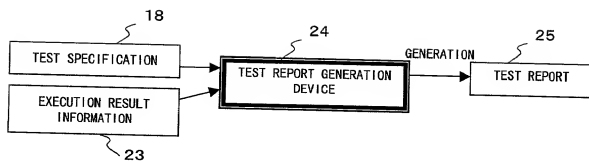
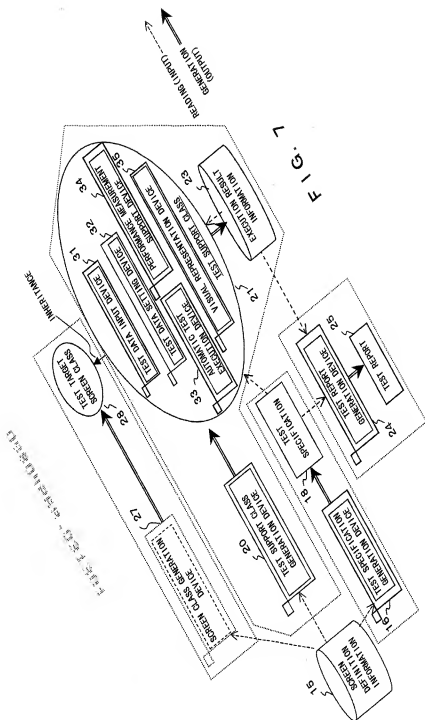
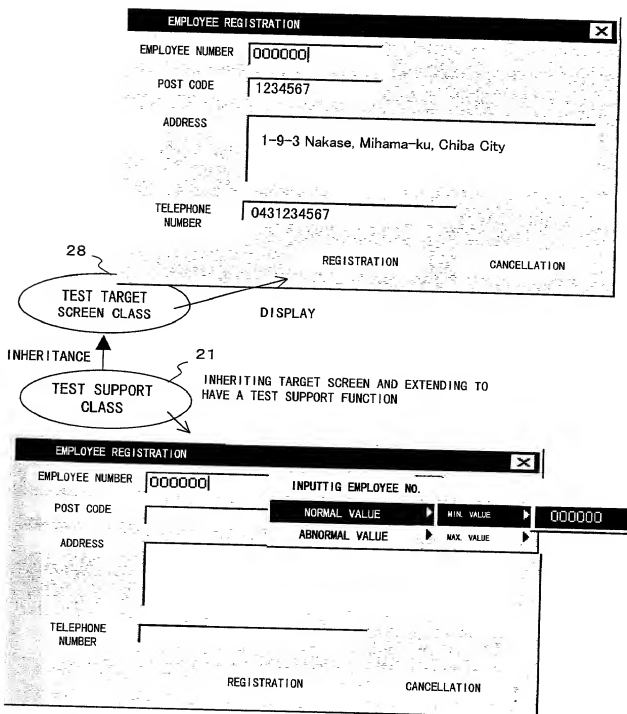


FIG. 6



7  
F/G



**F I G. 8**



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# EMPLOYEE REGISTRATION SCREEN DEFINITION

NAME OF SCREEN : EMPLOYEE REGISTRATION YusuyoToroku

NAME OF SAMPLE SCREEN : DB REGISTRATION TYPE DBTorokuMaster

SCREEN SIZE : 800x1000

TEST SPECIFICATION  
GENERATION DEVICE

## EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (IN AN ITEM UNIT)

NAME OF ITEM	NAME OF VARIABLE	TYPE	NUMBER OF DIGITS	MINIMUM VALUE	MAXIMUM VALUE
EMPLOYEE NUMBER	JyusuyoInBangou	NUMERICAL	6	000000	999999
POST CODE	yubiInBangou	NUMERICAL	7	0010001	9999999
ADDRESS	Jyusuyo	JAPANESE/ ALPHANU- MERIC	80		
TELEPHONE NUMBER	denwaBangou	NUMERICAL	10		
REGISTRATION	torokuButton	BUTTON			
CANCELLATION	cancelButton	BUTTON			

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-1001-01	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-1001-02		MAXIMUM VALUE	999999		
TEST-1001-03		MINIMUM VALUE-1	-1		
TEST-1001-04		MAXIMUM VALUE+1	1000000		
TEST-1001-05		INPUTTING ALPHABET	ABCDE		
TEST-1001-06		JAPANESE	あいう		
TEST-1002-01	POST CODE		0010001		
TEST-1002-02			9999999		
***	***	***	***		

## GENERATING SCREEN

EMPLOYEE REGISTRATION

EMPLOYEE NUMBER

0000000

POST CODE

ADDRESS

TELEPHONE NUMBER

REGISTRATION

CANCELLATION

## EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (IN A SCREEN UNIT)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-G001	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-G001	POST CODE	NORMAL	1234567		
TEST-G001	ADDRESS	NORMAL	Mitsumaru, Chiba-City		
TEST-G002	TELEPHONE NUMBER	NORMAL	0431234567		
TEST-G002	EMPLOYEE NUMBER	MAXIMUM VALUE	9999999		
TEST-G002	POST CODE	NORMAL	1234567		
TEST-G002	ADDRESS	NORMAL	Mitsumaru, Chiba-City		
TEST-G002	TELEPHONE NUMBER	NORMAL	0431234567		
***	***	***	***		

FIG. 9

## EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-1001-01	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-1001-02		MAXIMUM VALUE	999999		
TEST-1001-03		MINIMUM VALUE-1	-1		
TEST-1001-04		MAXIMUM VALUE+1	1000000		
TEST-1001-05		INPUTTING ALPHABET	ABCDE		
TEST-1001-06		JAPANESE	あ, い, う		
TEST-1002-01	POST CODE				
TEST-1002-02					

## EMPLOYEE REGISTRATION

EMPLOYEE  
NUMBER

POST CODE

ADDRESS

TELEPHONE  
NUMBER

REGISTRATION

CANCELLATION

INPUTTING EMPLOYEE NO.

NORMAL VALUE

ABNORMAL VALUE

MIN. VALUE

MAX. VALUE

## TEST DATA PROVIDING DEVICE

31

TEST DATA INPUT DEVICE

TEST DATA INPUT  
INFORMATION

40

32

TEST DATA  
SETTING DEVICE

23

EXECUTION RESULT  
INFORMATION

FIG. 10

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-0001	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-0001	POST CODE	NORMAL	1234567		
TEST-0001	ADDRESS	NORMAL	Mihama-Ku, Chiba-City		
TEST-0001	TELEPHONE NUMBER	NORMAL	0431234567		
TEST-0002	EMPLOYEE NUMBER	MAXIMUM VALUE	999999		
TEST-0002	POST CODE	NORMAL	Mihama-Ku, Chiba-City		
TEST-0002	ADDRESS	NORMAL	0431234567		
TEST-0002	TELEPHONE NUMBER	NORMAL	0431234567		
...	...	...	...		

EMPLOYEE REGISTRATION

EMPLOYEE NUMBER: 0000001  
 POST CODE: 1234567  
 ADDRESS: 1-9-3, Nakase, Mihama-Ku, Chiba-City  
 TELEPHONE NUMBER: 0431234567

REGISTRATION CANCELLATION

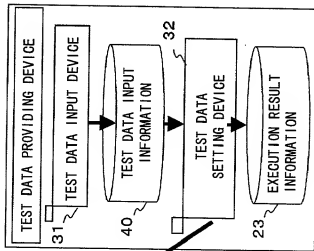


FIG. 11

**EMPLOYEE REGISTRATION**

EMPLOYEE NUMBER: 000000

POST CODE: 1234567

ADDRESS: 1-9-3, Nakase, Mihama-ku, Chiba-City

TELEPHONE NUMBER: 0431234567

STATUS: REGISTERED

**EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)**

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-G001	EMPLOYEE NUMBER	MINIMUM VALUE	000000		
TEST-G001	POST CODE	NORMAL	1234567		
TEST-G001	ADDRESS	NORMAL	Mihama-ku, Chiba-City		
TEST-G001	TELEPHONE NUMBER	NORMAL	0431234567		
TEST-G002	EMPLOYEE NUMBER	MAXIMUM VALUE	999999		
TEST-G002	POST CODE	NORMAL	1234567		
TEST-G002	ADDRESS	NORMAL			
TEST-G002	TELEPHONE NUMBER	NORMAL			

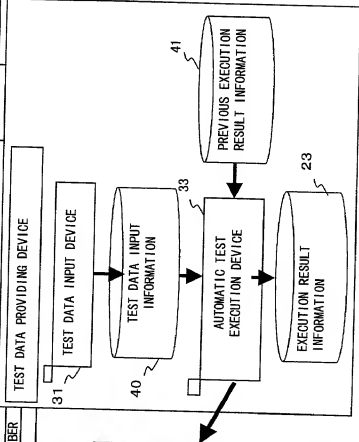
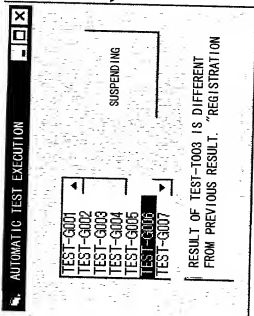


FIG. 12

EMPLOYEE REGISTRATION	
EMPLOYEE NUMBER	000000
POST CODE	1234567
ADDRESS	1-9-3, Nakase, Mihama-ku, Chiba-City
TELEPHONE NUMBER	0431234567
STATUS: REGISTERED	REGISTRATION CANCELLATION

INPUT FIELD

- WHEN ERROR PROCESS IS ENTERED, BACKGROUND COLOR OF INPUT FIELD TURNS YELLOW.
- WHEN NORMAL PROCESS IS ENTERED, BACKGROUND COLOR OF INPUT FIELD TURNS BLUE.

BUTTON

- WHEN IT IS ONCE PRESSED, BACKGROUND COLOR OF THE BUTTON TURNS BLUE.

FIG. 13

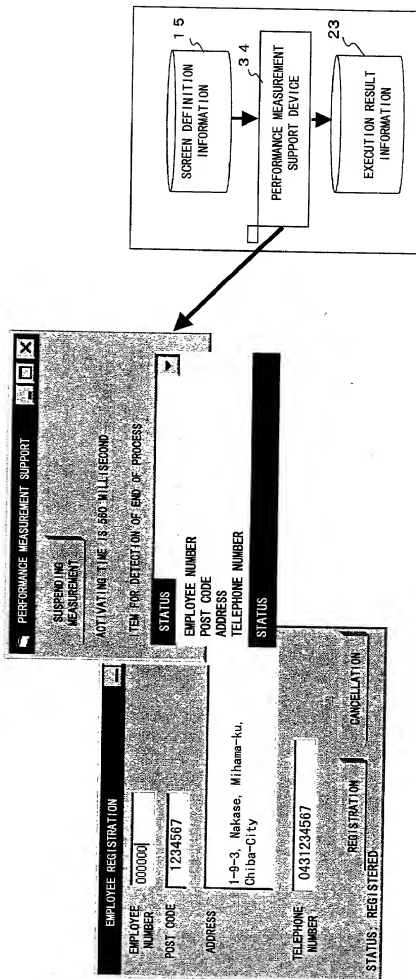


FIG. 14

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	EXECUTION RESULT	EXECUTION DATE
TEST-1001-01	EMPLOYEE NUMBER	MINIMUM VALUE	000000	O	00/03/03
TEST-1001-02		MAXIMUM VALUE	999999	O	00/03/03
TEST-1001-03		MINIMUM VALUE-1	-1	x	00/03/03
TEST-1001-04		MAXIMUM VALUE+1	1000000	x	
TEST-1001-05		INPUTTING ALPHABET	ABCODE	x	
TEST-1001-06		JAPANESE	あ, い, う	x	
TEST-1001-07				O	00/03/04
TEST-1001-08				O	00/03/04

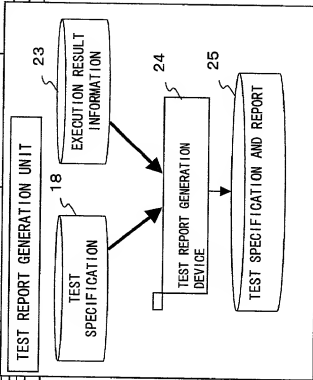
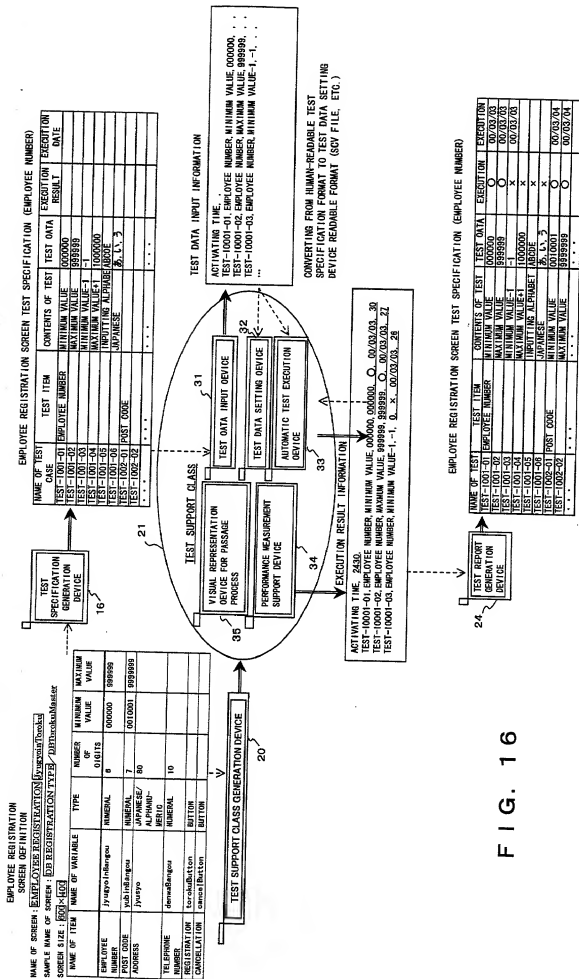


FIG. 15





EMPLOYEE REGISTRATION SCREEN

```
torokuButton_action() {  
  TEST SUPPORT A  
    driverA = new TEST SUPPORT  
    A(this);  
  driverA.MEASUREMENT STARTING  
  METHOD();  
  server.torokuButton_action();  
  driverA.MEASUREMENT COMPLETING  
  METHOD();  
}
```

'KNOW'

TEST SUPPORT A CLASS

```
+ MEASUREMENT STARTING  
  METHOD()  
+ MEASUREMENT  
  COMPLETING METHOD()
```

FIG. 17

```
classDiagram
    class EmployeeRegistrationScreen {
        torokuButton_action()
    }
    class TestSupportBClass {
        torokuButton_action() {
            this.MEASUREMENT_STARTING_METHOD()
            super.torokuButton_action()
            this.MEASUREMENT_COMPLETING_METHOD()
        }
        MEASUREMENT_STARTING_METHOD()
        MEASUREMENT_COMPLETING_METHOD()
    }
    EmployeeRegistrationScreen <|-- TestSupportBClass
```

The diagram illustrates an inheritance relationship between two classes. The superclass, EMPLOYEE REGISTRATION SCREEN, contains a method `torokuButton_action();`. The subclass, TEST SUPPORT B CLASS, inherits from it, as indicated by a solid arrow labeled "INHERITANCE". The subclass's `torokuButton_action()` method is implemented as follows:

```
torokuButton_action() {  
    this.MEASUREMENT_STARTING_METHOD  
    ();  
    super.torokuButton_action();  
    this.MEASUREMENT_COMPLETING  
    METHOD ();  
}
```

Below the method definition, two additional methods are listed:

- MEASUREMENT\_STARTING\_METHOD()
- MEASUREMENT\_COMPLETING\_METHOD()

FIG. 18

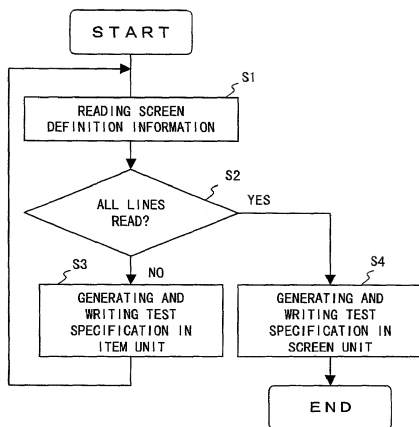


FIG. 19

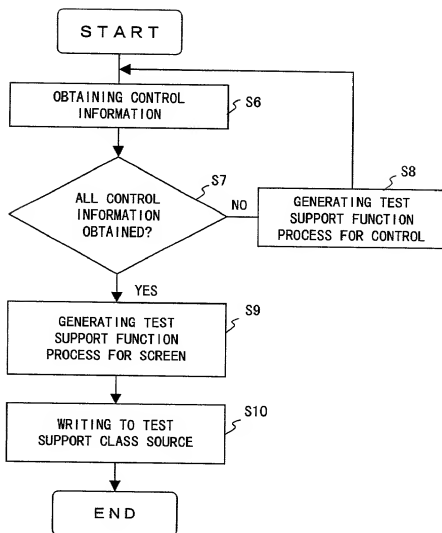


FIG. 20

EMPLOYEE REGISTRATION SCREEN TEST SPECIFICATION (EMPLOYEE NUMBER)

18

NAME OF TEST CASE	TEST ITEM	CONTENTS OF TEST	TEST DATA	TEST RESULT
TEST 001	NORMAL VALUE	MINIMUM VALUE	000000	
		MAXIMUM VALUE	999999	
	ABNORMAL VALUE	MINIMUM VALUE-1	-1	
		MAXIMUM VALUE+1	1000000	
		INPUTTING ALPHABET	ABCDE	
		JAPANESE	あ,い,う	

TEST DATA INPUT DEVICE

TEST DATA INPUT INFORMATION

SCREEN	INPUT	FIRST LEVEL DISPLAY	SECOND LEVEL DISPLAY	TEST VALUE
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MINIMUM VALUE	000000
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MAXIMUM VALUE	999999
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MINIMUM VALUE-1	-1
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MAXIMUM VALUE+1	1000000
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	ALPHABET	ABCDE
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	JAPANESE	あ,い,う

FIG. 21

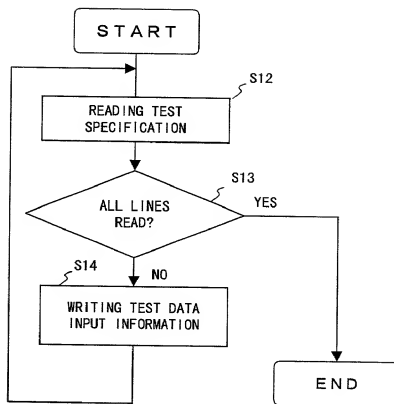
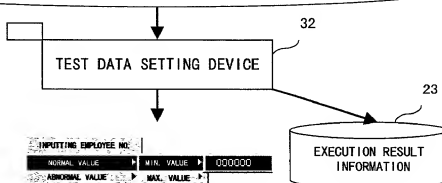


FIG. 22

TEST DATA INPUT INFORMATION

SCREEN	INPUT	FIRST LEVEL DISPLAY	SECOND LEVEL DISPLAY	TEST VALUE
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MINIMUM VALUE	000000
EMP.	EMPLOYEE NUM.	NORMAL VALUE	MAXIMUM VALUE	999999
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MINIMUM VALUE-1	-1
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	MAXIMUM VALUE+1	1000000
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	ALPHABET	ABCDE
EMP.	EMPLOYEE NUM.	ABNORMAL VALUE	JAPANESE	あ.い.う



INPUTTING EMPLOYEE NO.		
NORMAL VALUE	MIN. VALUE	000000
ABNORMAL VALUE	MAX. VALUE	

EXAMPLE OF EXECUTION RESULT INFORMATION  
 DISPLAY VALUE FOR INPUT DATA, EXECUTION DETERMINATION RESULT (O/×),  
 EXECUTION DATE AND TIME, ETC. ARE ADDED

ACTIVATING TIME  
 TEST-10001-01, EMPLOYEE NUMBER, MINIMUM VALUE, 000000, 000000, O, 00/03/03,  
 TEST-10001-02, EMPLOYEE NUMBER, MAXIMUM VALUE, 999999, 999999, O, 00/03/03,  
 TEST-10001-03, EMPLOYEE NUMBER, MINIMUM VALUE-1, -1, -0, ×, 00/03/03,  
 ...

FIG. 23

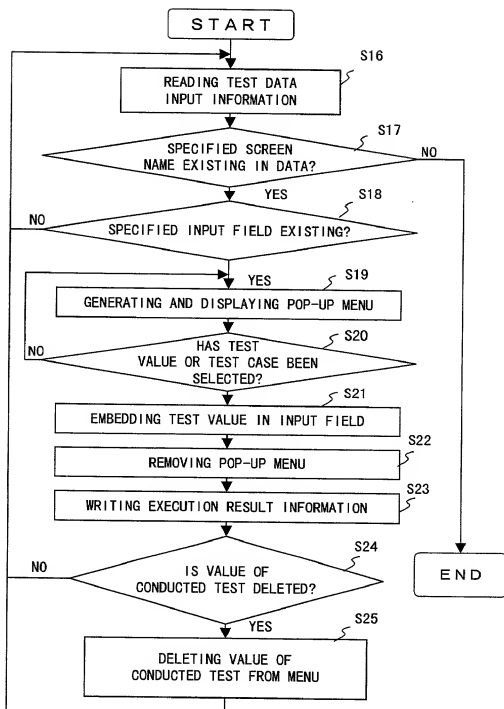
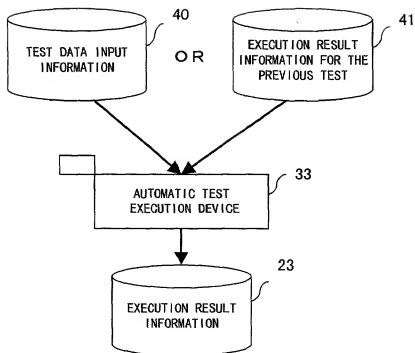


FIG. 24





EXAMPLE OF EXECUTION RESULT INFORMATION  
 SINCE TEST IS AUTOMATICALLY CONDUCTED, NO EXECUTION RESULT DETERMINATION  
 (O/×) IS OUTPUT BY OPERATOR

ACTIVATING TIME  
 TEST-10001-01, EMPLOYEE NUMBER, MINIMUM VALUE, 000000, 00/03/03,  
 TEST-10001-02, EMPLOYEE NUMBER, MAXIMUM VALUE, 999999, 00/03/03,  
 TEST-10001-03, EMPLOYEE NUMBER, MINIMUM VALUE-1, -1, -0, 00/03/03,  
 ...

FIG. 25

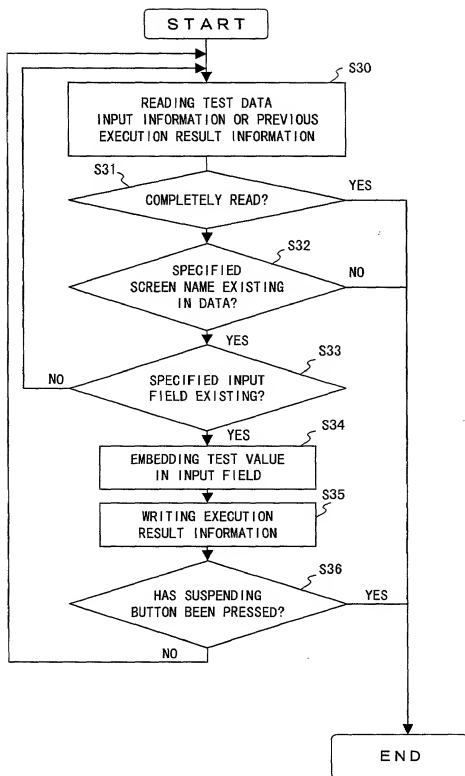
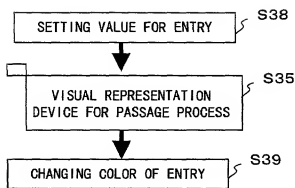


FIG. 26



EXAMPLE) REPRESENTING BACKGROUND  
IN BLUE AND CHARACTERS  
IN WHITE FOR NORMAL PROCESS

EXAMPLE) REPRESENTING BACKGROUND  
IN YELLOW AND CHARACTERS  
IN BLACK FOR ABNORMAL

EMPLOYEE REGISTRATION		EMPLOYEE REGISTRATION	
EMPLOYEE NUMBER	100000	EMPLOYEE NUMBER	9999999
POST CODE	1234567	POST CODE	1234567
ADDRESS	1-9-3, Nakase, Miha	ADDRESS	1-9-3, Nakase, Mihama-ku, Chiba-City
TELEPHONE NUMBER	0431234567	TELEPHONE NUMBER	0431234567
REGISTRATION		REGISTRATION CANCELLATION	
STATUS: REGISTERED		STATUS: EMPLOYEE NUMBER ERROR	

FIG. 27

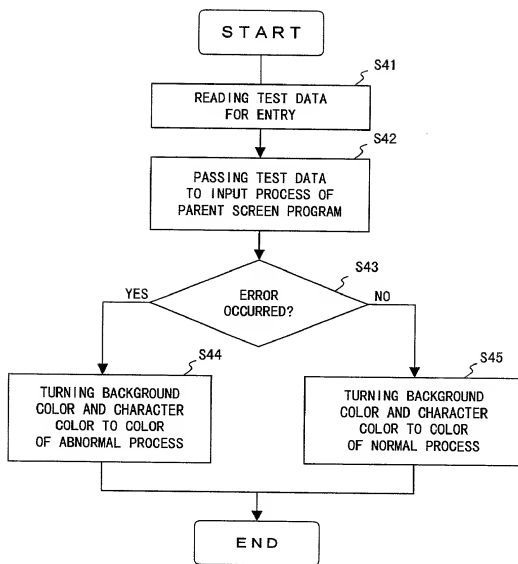


FIG. 28

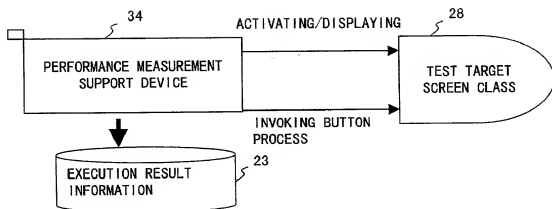


FIG. 29

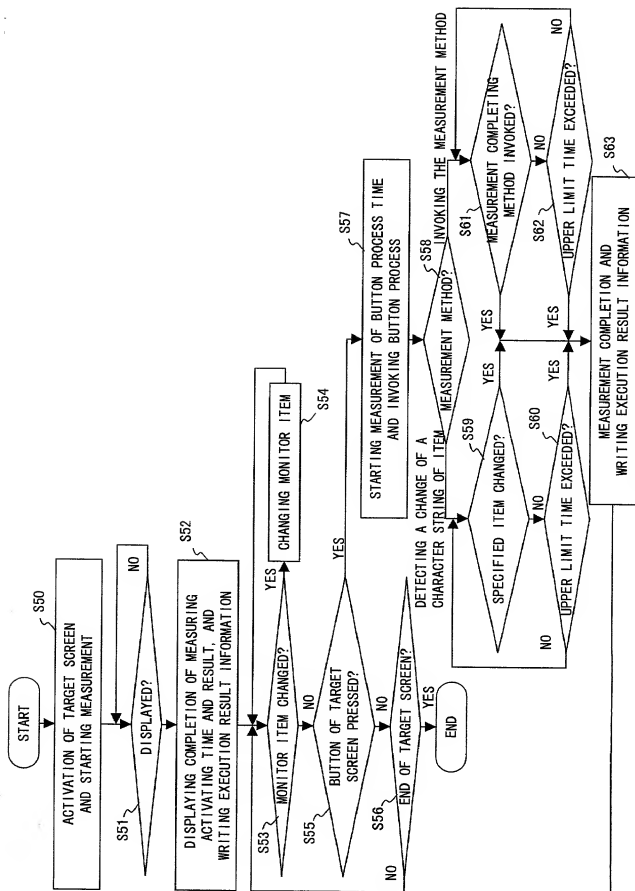


FIG. 30

EMPLOYEE REGISTRATION

EMPLOYEE NUMBER 000000

POST CODE 1234567

ADDRESS 1-9-3, Nakase, Mihama-ku, Chiba-City

TELEPHONE NUMBER 0431234567

REGISTRATION CANCELLATION

STATUS: REGISTERED

CUSTOMIZING TEST SUPPORT FUNCTION

CHANGING FUNCTION MEASURING METHOD  
 SETTING MEASUREMENT UPPER LIMIT TIME  
 CHANGING MONITOR ITEM

PERFORMANCE MEASUREMENT SUPPORT

SUSPENDING MEASUREMENT

ACTIVATING TIME IS 560 MILLISECOND

ITEM FOR DETECTION OF PROCESS TERMINATION

STATUS

EMPLOYEE NUMBER

POST CODE

ADDRESS

TELEPHONE NUMBER

STATUS

FIG. 31

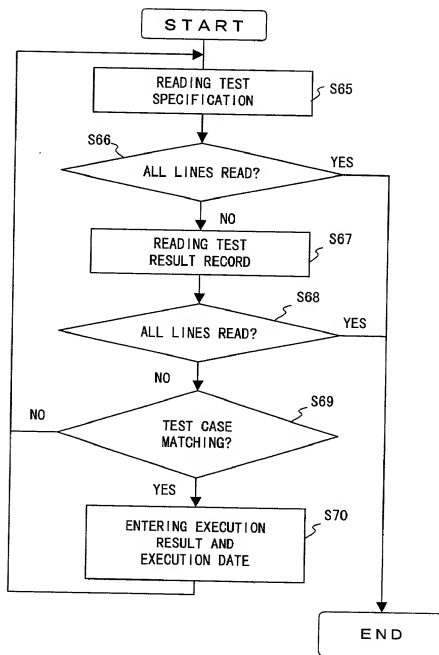


FIG. 32



EMPLOYEE REGISTRATION

EMPLOYEE NUMBER 000000

POST CODE

ADDRESS

TELEPHONE NUMBER

INPUTTING EMPLOYEE NO.

NORMAL VALUE MIN. VALUE 000000

ABNORMAL VALUE MAX. VALUE

REGISTRATION CANCELLATION

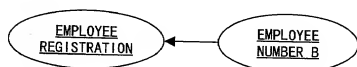


FIG. 33

EMPLOYEE REGISTRATION

EMPLOYEE  
NUMBER 000000

POST CODE 1234567

ADDRESS  
1-9-3, Nakase, Mihama-ku, Chiba-City

TELEPHONE  
NUMBER 0431234567

REGISTRATION CANCELLATION

EMPLOYEE  
REGISTRATION

FIG. 34

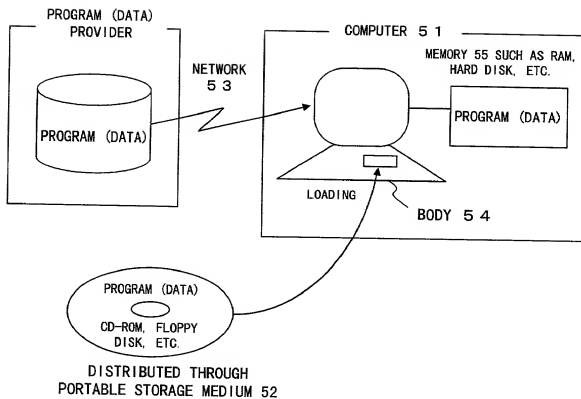


FIG. 35